

GROUPE

AT

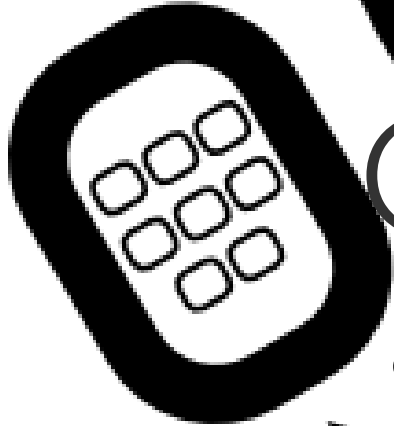
LAFAYETTE COLLEGE



WHO AM I?

CARL WALDBIESER

- [waldbiec@lafayette.edu](mailto:waldbiec@lafayette.edu)
- <https://github.com/cwaldbieser>



TOPICS  
COVERED



# KINDS OF GROUPS

Groups have similar structure, but not all groups have the same *meaning*.



LEVEL  
4

Top Predators



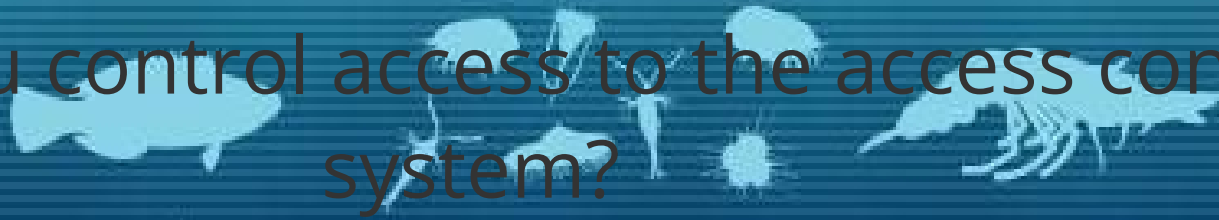
LEVEL  
3

Carnivores



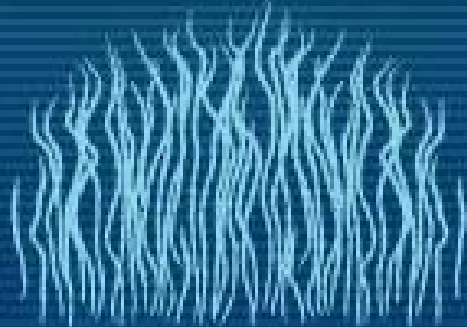
LEVEL  
2

Herbivores



LEVEL  
1

Photo-Autotrophs (plants)



# THE GROUPER PERMISSION MODEL & DELEGATION

How do you control access to the access control system?



# AUTOMATING TASKS WITH THE GROUPEE SHELL

Some jobs are just too big for point and click.



# ACCESS CONTROL MODELS

What do policies mean in the *real* world?

# PROVISIONING WITH RABBITMQ EXCHANGE

From policy definitions to policy enforcement, this  
is where the rubber meets the road.

A grayscale illustration of a globe with various scripts and symbols overlaid on it. The scripts include Latin (W, V, 7), Greek (Ω), and Chinese (維). The globe is shown from a perspective that makes it look like a sphere with a grid of lines.

# KINDS OF GROUPS BASIS AND REFERENCE GROUPS

Sources of truth in Grouper.



# LOADED FROM BANNER

- employees
- students
- alumni



# MAINTAINED IN GROUPE

- Ex Officio roles
- Trustees and Cabinet
- Departmental roles



# LIFE CYCLE COHORTS

- Incoming class / Early onboarded students
- Outgoing class
- Graduates of the previous and current years






# KINDS OF GROUPS BUNDLES

Bundles group *unrelated* cohorts that have access to the same set of services



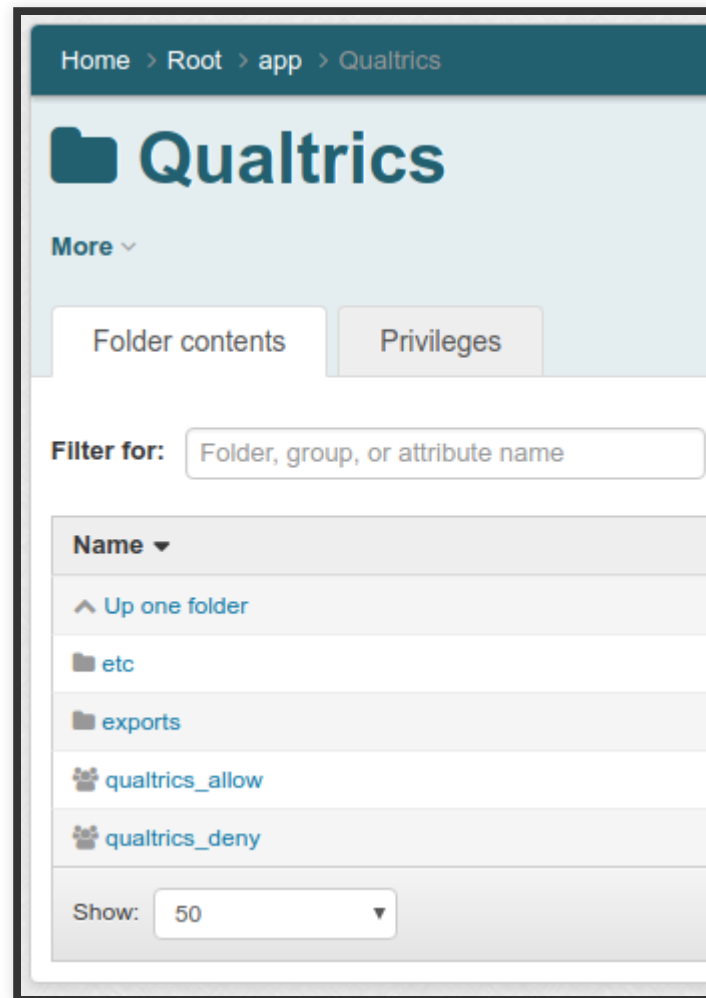
A blue padlock is centered on a light gray background with a white circuit pattern. The padlock is slightly tilted and has a keyhole. The circuit lines are composed of straight segments and circles, resembling a network or data flow.

# KINDS OF GROUPS ACCESS AND PROVISIONING POLICIES

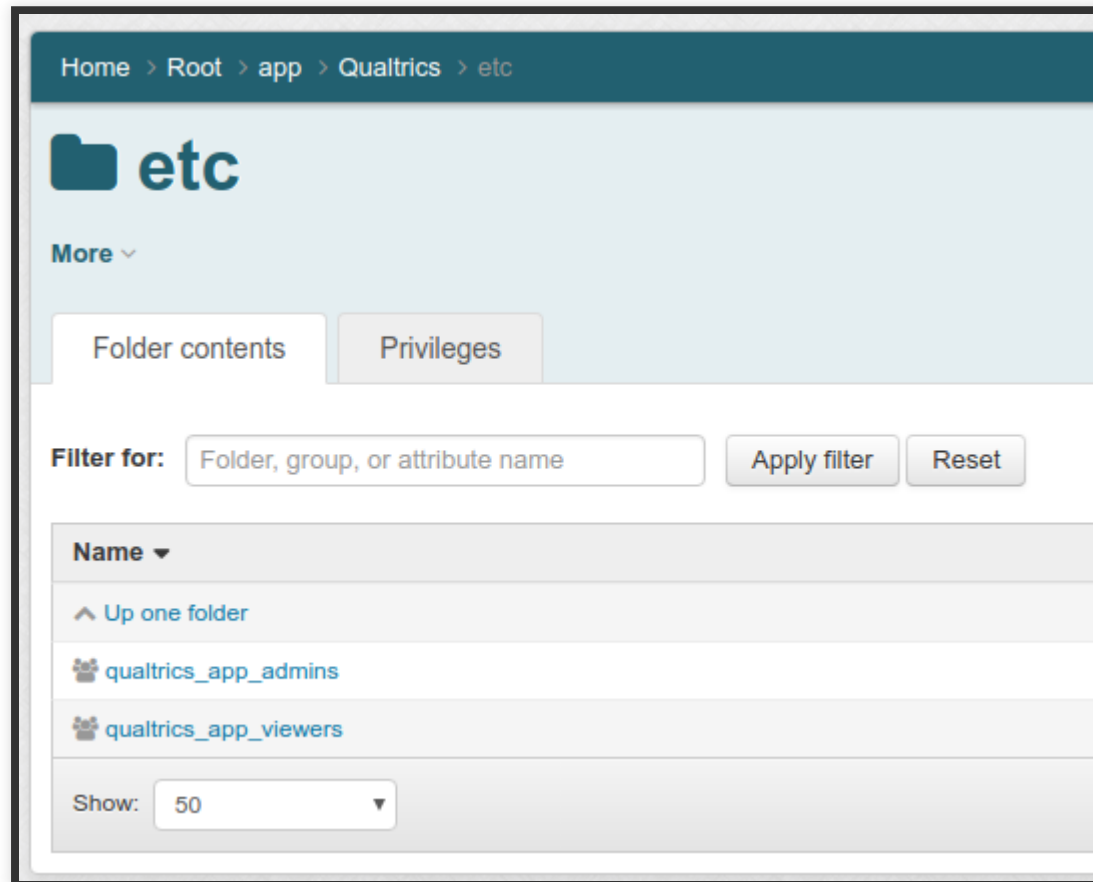
# PERMISSIONS AND DELEGATION IN GROUPE



App structure contains an *etc* folder.




The *etc* folder has policy groups for admins



The admin and viewer groups are assigned permissions on policy groups.

[Home](#) > [Root](#) > [app](#) > [Qualtrics](#) > [qualtrics\\_allow](#)

 **qualtrics\_allow**

[+ Add members](#)

[More actions ▾](#)



[More ▾](#)

[Members](#) [Privileges](#) [More ▾](#)

The following table lists all entities with privileges in this group.

**Filter for:**  ▾  
 ▾  
 [Apply filter](#) [Reset](#)

**Update:**  ▾ [Update selected](#)

<input type="checkbox"/> <b>Entity name ▾</b>	<b>Admin</b>	<b>Read</b>	<b>Update</b>	<b>OptIn</b>	<b>OptOut</b>	<b>Attribute read</b>	<b>Attribute update</b>	<b>View</b>	
<input type="checkbox"/>  <a href="#">qualtrics_app_admins</a>	✓	✓	✓	✓	✓	✓	✓	✓	<a href="#">Actions ▾</a>
<input type="checkbox"/>  <a href="#">qualtrics_app_viewers</a>		✓						✓	<a href="#">Actions ▾</a>

**Show:**  ▾

Showing 1-2 of 2 · [First](#) | [Prev](#) | [Next](#) | [Last](#)





# AUTOMATING TASKS

[https://github.com/cwaldbieser/grouper\\_jython\\_scripts](https://github.com/cwaldbieser/grouper_jython_scripts)







MASSEXPIRATIONS

A loading spinner graphic consisting of twelve rounded rectangular segments arranged in a circle. The segments are in various shades of gray, with the two segments at the bottom being the darkest, indicating the current position of the spinner.

SETTING UP LOADER JOBS.

**Loading**

# ACCESS CONTROL MODELS





ACMI - SUBJECT ATTRIBUTES  
UNIVERSITY TICKETS

A vertical traffic light with three circular lights. The top light is red, the middle light is yellow and illuminated, and the bottom light is green. The traffic light is mounted on a grey pole. The background is white.

ACM II - GROUPER AS PAP AND PDP  
VPN ROLES



ACM III - USER - ROLE - PERMISSION  
MAPPING

COGNOS, BOARD.EFFECT,  
SPLUNK



TARGET SYSTEMS





# ROUTING



# PROVISIONER DELIVERY SERVICE



RABBITMQ EXCHANGE

RabbitMQ™



PROVISIONERS